

PHENIX WEEKLY PLANNING

TECHNICAL
SUPPORT
NO. 1



3/10/2011
Don Lynch

This Week:

Restricted Access All Week due to circuit breaker/cryo problem:

- VTX ladder repair
- RPC added shielding in South tunnel
- PC. East work
- FoCal Prototype support structure installed

Next Access : ~~March 16th~~ ??? Access this week takes place of next week's access

Prep for FoCal prototype installation

Continuing mechanical, electrical and gas system support for Run 11

Plan for shutdown 2011

Future upgrades support

Next Week

No scheduled maintenance next week, Next: scheduled maintenance access:

TBD

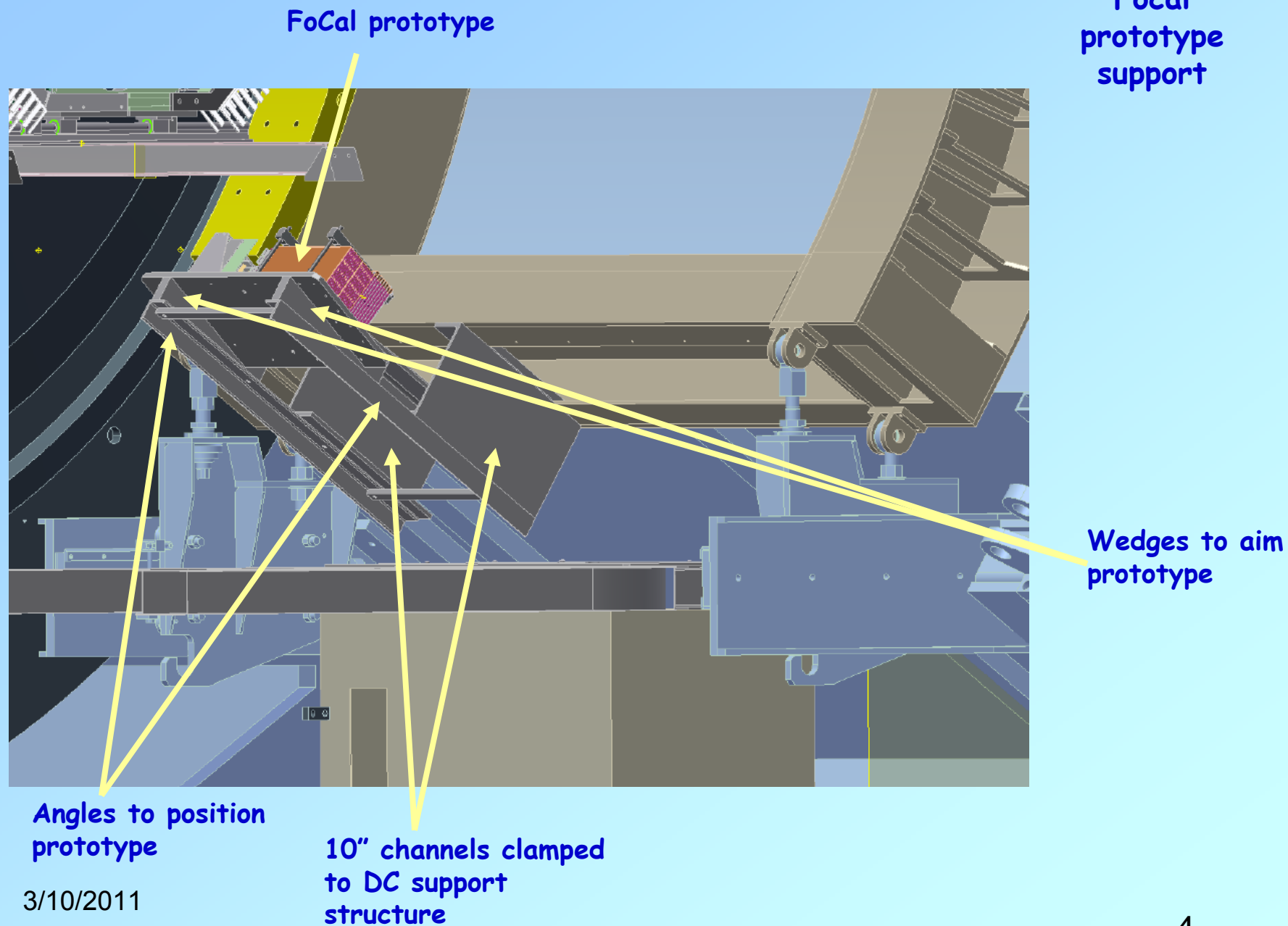
Continue Prep for FoCal prototype installation

Continuing mechanical, electrical and gas system support for Run 11

Continue planning for shutdown 2011

Future upgrades support

St. Patrick's Day - New Trivia (Shortest, smallest, strangest, largest, coldest)



3/10/2011



Planning For the 2011 Shutdown

- Prep for shutdown 2/1-6/30/2011
 - Define tasks and goals
 - Analysis and design of fixtures, tools and procedures
 - Fabricate/procure tools and fixtures
 - Tests, mockups, prototypes
 - Receive, fabricate, modify, finish installables (bigwheels, tubing, etc.)
 - Review and approval of parts, tools, fixtures and proceures
 - Assembly and QA tests
- Run 11 Ends 6/30/2010
- Shutdown Standard Tasks 7/1-7/21/2010
 - Open wall, disassemble wall, Remove MuID Collars,
 - Move EC to AH, etc.
- Disassemble VTX services 7/11-7/22
- Remove VTX and transport to Chemistry Lab 7/25/2011
- BBC North maintenance 7/22-7/29/2011
- MuTr North Station 1 work 7/25-9/30/2011
 - Install access (scaffold) (1 week)
 - Disconnect Cables, hoses etc (1 week)
 - Remove FEE plates and chambers (1 week)
 - Station 2 Maintenance/upgrade through access opened by station 1 removal (3 weeks concurrent with next task)
 - Clean/install new parts and upgrades (3 weeks, concurrent)
 - Re-install chambers and FEE plates (1 week)
 - Re-cable, re-hose and test (3 weeks)

Planning For the 2011 Shutdown (cont'd)

TECHNICAL SUPPORT NOTES

- VTX maintenance/upgrade and integration of FVTX onto VTX support structure 7/25-9/25/2011
 - Disassemble/repair/upgrade/test/reassemble VTX (3 weeks)
 - Resurvey as necessary (1 week)
 - Install FVTX (3 weeks)
 - VTX/FTX survey and QA tests (2 weeks)
- RPC1 and Absorber upgrades 7/25-10/28/2011
 - Install north absorbers (1 week)
 - Install north RPC1 (3 weeks)
 - Install south absorbers (1 week)
 - Install south RPC1 (3 weeks)
- Install VTX&FVTX (2 weeks) 9/26-10/7/2011
- Undefined detector subsystem maintenance and repairs 7/25-10/7/2011
- Prep for EC roll in 10/3-10/7/2011
- Roll in EC 10/10/2011
- Prep IR for run 10/10-10/17/2010
- VTX, FVTX and RPC1 Services and commissioning 9/16-10/31/201
- Pink/Blue/White sheets 10/17-10/31/201
- Run 12 cooldown 11/1/2011

Tools/Fixtures Needed for Shutdown 2011

- FVTX/VTX modified assembly fixture
- FVTX inspection tool(s)
- Modified FVTX/VTX installation/transport fixture(s)
- RPC absorber assembly tool(s)
- RPC absorber installation tool(s)
- Station 1 North scaffolding
- RPC1 assembly fixture(s)
- RPC1 transport/installation fixture(s)
- MuTr vacuum lifter dummy load (for load test)
- MuTr additional lifting fixture(s) (FEM plate)
- Mu Trigger Stations 2/3 North&South access scaffolding
- Mu Trigger Stations 2/3 North&South Assembly/positioning/holding tool(s)

- Improved/upgraded VTX part(s)
- VTX assembly(s)
- FVTX support structure
- FVTX big wheels
- FVTX Big wheel mounts
- VTX/FVTX arc cable trays and mounts
- RPC PE&Pb/Li absorber Components (N & S)
- RPC PE&Pb/Li absorber assemblies (N & S)
- RPC PE&Pb/Li absorber mounting structure (N & S)
- RPC1 components (N & S)
- RPC1N assembly(s)
- RPC1N mounting structure
- BBCN wire management modification
- RPC1S assembly(s)
- RPC1S mounting structure
- BBCS wire management modification
- MuTr Repair/Upgrade Parts

- MuTr Repair/Upgrade Assemblies
- MuTrigger Repair/Upgrade Parts
- Parts for Other Shutdown Work
 - Misc. Subsystem Part(s)
 - Gas Mixing House Maintenance and upgrade parts
 - PHENIX Infrastructure Maintenance and improvement parts
 - Gas Pad maintenance/repair/upgrade parts
 - PC1/DC repairs and improvements parts
 - IR Bridge electrical service upgrade parts
 - FoCal Support parts
 - RPC Factory Support parts
 - Rack room upgrades parts
 - CM Crane parts
 - CM Alignment Stop parts
 - Gas system maintenance/repair/upgrade parts
 - Future upgrade support parts
 - MuTrigger Repair/Upgrade Assemblies

Procedures for Shutdown 2011

- Existing PHENIX General Purpose Recurring Task procedures
- VTX Removal
- FVTX/VTX installation
- VTX Survey
- FVTX Survey
- FVTX Cooling System
- RPC borated PE/Pb or Li Absorber
- RPC1 Installation/QA testing/Survey
- MuTr Maintenance & Upgrade
- MuTrigger Maintenance and Upgrade

Work Permits for Shutdown 2011

- Start of Shutdown
- VTX Removal
- FVTX/VTX Installation
- MuTr Maintenance and Upgrade
- RPC Absorber Upgrade
- RPC1 Installation
- MuTrigger Maintenance and Upgrade
- End of Shutdown

2010 Building Maintenance Issues

TECHNICAL SUPPORT

- Roof leaks in utility bathroom at northwest corner behind tech offices, over door between rack room and assembly hall, over door between control room and elect. ass'y room, southeast corner of IR and laser room.
- General maintenance for Trailer Offices (in progress)
-Repair replace floor tiling as needed
- Flooding in AH/ Driveway
- New connection

Nothing New This Week



PHENIX Procedure Review Current Status:

147 Procedures Identified

- 87 Made Inactive (not currently in use, will reactivate if and when necessary, available for re- activate if
- 9 CAD procedure relevant to the experiment and available on the
- 43 PHENIX procedure
- 9 Proposed procedures (never previously formalized) (3 are ready for re- these will be addressed during next few months.

Nothing New This Week

Web retrieval of latest procedures now available from PHENIX Internal:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_procedures.htm

1. RPC Factory annual safety review
 - a) All procedures reviewed and found to be up to date requiring no revisions
 - b) Annual RPC Factory safety system blue sheet testing complete (?)
(Waiting for IFM to do fire alarm tests)
 - a) Safety walkthru needed, schedule TBD, after blue sheets
2. FoCal Prototype safety review
 - a) Documents prepared and submitted for review - Done
 - b) Installation procedure and work permit in progress - Waiting for prototype
 - c) Assembly of prototype and design of installation/support structure in progress - wire bonding in progress?
 - d) Expect to install during a maintenance access period sometime in March
- probably delayed to April

TECHNICAL
SUPPORT
NOI

3. Tier 1 inspection yesterday:

- No major issues
- Waiting for report to evaluate and correct minor issues

Where To Find PHENIX Engineering Info



Run 11:

Our best days
are still ahead

Links for the weekly planning meeting slides, archives of past meeting slides, long term planning, pictures, videos and other technical info can be found on the PHENIX Engineering web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

